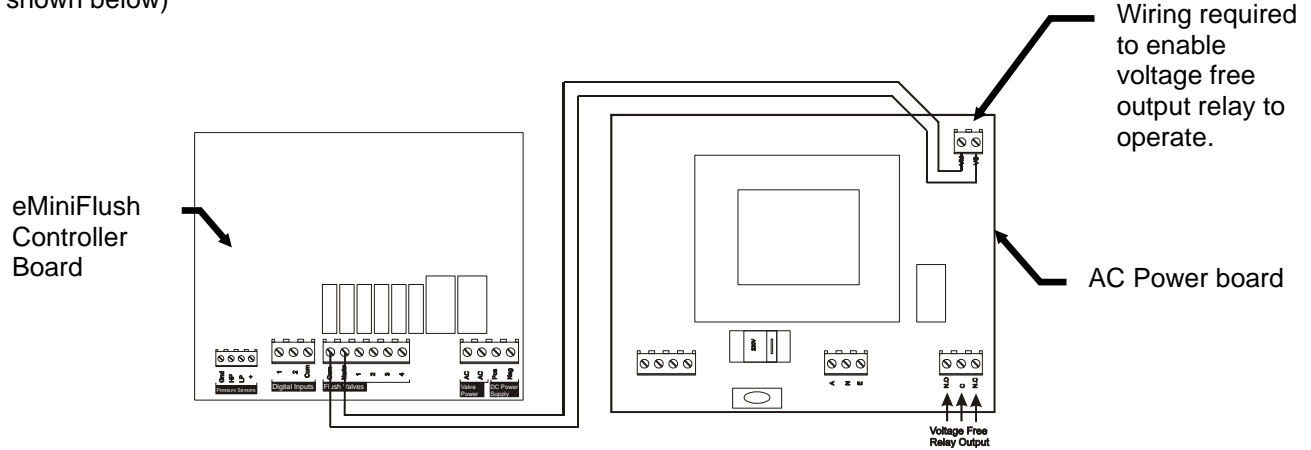


eMiniFlush With Fault Output Setup Instructions

1. Ensure that the fault output link has been wired between the eMiniFlush and AC Power Board. (As shown below)

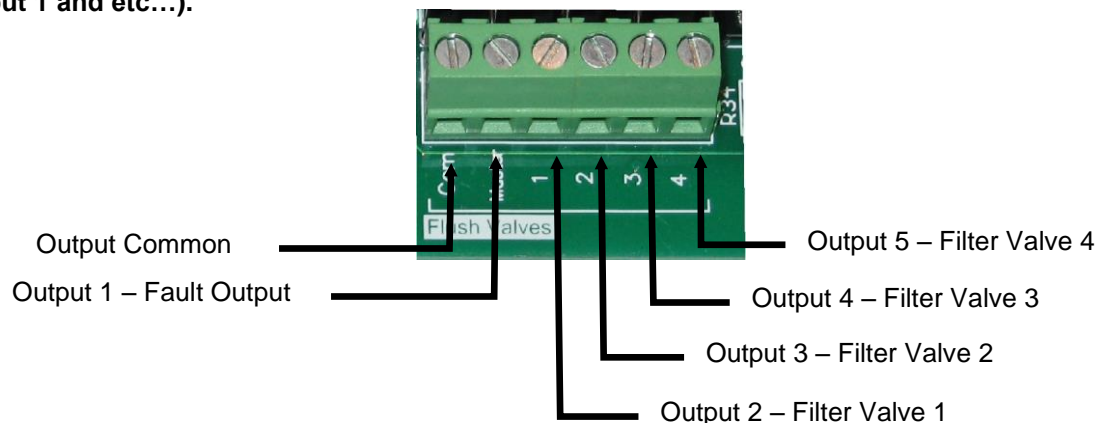


Note: The voltage free fault output is located on the bottom right of the AC Power Board. A Normally Closed and a Normally Open Contact is provided and can be connected either to a fault alert system or to stop a pump.

When setup as per these instructions the dry contact coil will energize when a fault occurs. For example, in fault, the NC will open and the NO will close. Depending on the type of pump controller you have, you may need to use the NO or NC. If it's a simple interruption of a pump contactor coil then NC should be used.

2. Wire the filter flush solenoids between Output Common and Output 2, Output 3, Output 4, Output 5

NOTE: Software output names and labels on circuit board are different. In software Output 1 is the Master Output on the board e.g. Software Output 1 = Circuit Board Output M and Software Output 2 = Circuit Board Output 1 and etc...).

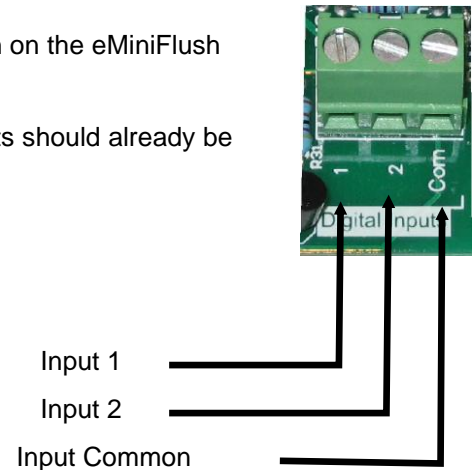


3. Wiring the Techsys back flush flow switch

Connect the Brown wire from the flow switch to Input Common on the eMiniFlush Controller Board and connect the Black wire to Input 2.

Note: If an external DP switch is in use then the switch contacts should already be connected between Input 1 and Input Common.

The NC flow switch contacts will open when flow increases.
Common = Brown, N.C. = Black, N.O. = Blue



4. Setup Controller

- a) Power up controller.
- b) Using the up and down buttons navigate until “Access Code” is shown on the screen.
- c) Press the “*” enter button to enter the access code screen.
- d) Using the up and down buttons make the valve on the screen equal to 21.
- e) Press the “*” button to lock in the access code.
- f) Using the up and down buttons navigate until “ASSIGN INPUTS” is shown on the screen.
- g) Enter the submenu by pressing the “*” key.
- h) Using the down button navigate to Input 1
- i) Check that Input 1 is set to “Ext-DP Flush”. If not change using procedure outlined in step k.
- j) Using the down button navigate to Input 2
- k) Check that Input 2 is set to “B-F Flow SW N/C”. If not change by first pressing “*” to begin editing, then change the value using the up/down keys. After selecting the required value use the “*” key to save the setting.
- l) Navigate by pressing down until the screen shows “ASSIGN OUTPUTS”.
- m) Press the “*” to enter the submenu.
- n) Check that Output 1 is set to “Fault”. If not change by using procedure outlined in step k.
- o) Check that Output 2 is set to “Filter Valve 1”. If not change by using procedure outlined in step k.
- p) Check that Remaining outputs are set correctly based on the number of solenoids connected. If an output isn’t used select “Disabled”

5. Flow Switch Tuning

- a. After entering the access code navigate to the timing menu and press the “*” button to enter the timing submenu. (see 4b)
- b. Using the down button find the setting “Ex B-F Flow Dly”
- c. This setting controls the acceptable amount of time that flow is allowed to continue after a backflush.
- d. If the system is faulting and nothing is wrong with the backflush valve increase this setting. This will allow a longer timer for flow to stop after a backflush.
- e. The default value is 10 seconds, which should be enough for most installations.
- f. To edit press the “*” key then use the up and down buttons to adjust the value. After selecting a new value press the “*” key again to save the setting.

Troubleshooting

- a) System is faulting and no backflush has occurred. Either the Input settings are incorrect or the flow switch wiring is incorrect.
- b) System doesn’t flush when the external dp switch is triggered. Either faulty DP Switch, incorrect Input settings, or incorrect DP switch wiring.
- c) System won’t fault when the backflush flush flow switch is held open. Incorrect input settings or incorrect flow switch wiring.